## PATENT COOPERATION TREATY

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACTION	าพ	See Form PCT/IPEA/416					
047956/288189		FOR FURTHER ACTION		See Folili FC1/II EA/410					
International application No.		International filing date (da)	y/month/year)	Priority date (day/month/year)					
PCT/US04/25682		09 August 2004 (09.08.2004	ust 2004 (09.08.2004) 07 August 2003 (07.08.2003)						
International Patent	International Patent Classification (IPC) or national classification and IPC								
IPC(7): A61M 29/00 and US Cl.: 606/108, 623/1.12									
Applicant									
ALVELUS, INC.				<u> </u>					
1. This re Exami									
2. This R	EPORT consists of	a total of $\frac{7}{2}$ sheets, include	ling this cover shee	et.					
3. This re	port is also accomp	panied by ANNEXES, comp	prising:	3					
a. 🗸	(sent to the applica	ant and to the International	Bureau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
ъ. [	7		tal of (indicate type	e and number of electronic carrier(s))					
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This i	eport contains indic	cations relating to the follow	ving items:						
	Box No. I I	Basis of the report	_						
	Box No. II	Priority							
· —		Non-establishment of opinion applicability	ion with regard to novelty, inventive step and industrial						
	Box No. IV	ack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive statement industrial applicability; citations and explanations supporting such statement									
Box No. VI Certain documents cited		-	-						
Box No. VII Certain defects in the international application									
Box No. VIII Certain observations on the international		international appli	cation						
Date of submission of the demand			Date of completion of this report						
27 September 2005 (27.09.2005)		01 February 2006 (01.02.2006)							
Name and mailing address of the IPEA/ US		/ US	Authorized officer						
Mail Stop PCT, Attn: IPEA/US			FOR						
Commissioner for Patents P.O. Box 1450			Michael Thaler	Jugurea delly					
Alexandria, Virginia 22313-1450		Michael Thaler Jugues eliby Telephone No. (703) 308-0858							
Facsimile No. (571) 273-3201			ו ווייס פרסים פרסים פרסים ווייס פרסים פרסי						

Form PCT/IPEA/409 (cover sheet)(April 2005)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application No.	· · · · · · · · · · · · · · · · · · ·

PCT/US04/25682

Box No.	I Basis of the report							
1. With regard to the language, this report is based on:								
$\boxtimes$	the international application in the language in which it was filed.							
_	a translation of the international application into English, which is the language of a translation furnished for the purposes of:  international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4(a))							
	international preliminary examination (under Rules 55.2(a) and/or 55.3(a))							
to the annex	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
<u></u>	the international application as originally filed/furnished the description:							
	pages 1-16 as originally filed/furnished							
	pages* NONE received by this Authority on							
	pages* NONE received by this Authority on							
	the claims:  pages 19-30 as originally filed/furnished  pages* NONE as amended (together with any statement) under Article 19  pages* 18 received by this Authority on 27 September 2005 (27.09.2005)  pages* NONE received by this Authority on							
$\bowtie$	the drawings:							
-	pages 1-8 as originally filed/furnished							
	pages* NONE received by this Authority on							
	pages* NONE received by this Authority on							
Ш	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.							
3.	The amendments have resulted in the cancellation of:							
	the description, pages							
	the claims, Nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to the sequence listing (specify):							
4	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).							
	the description, pages							
	the claims, Nos.							
	the drawings, sheets/figs							
	the sequence listing (specify):							
	any table(s) related to the sequence listing (specify):							
* If item 4 applies, some or all of those sheets may be marked "superseded."								

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/25682

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-86	YES			
2 , ,	Claims NONE	NO			
	<b></b>				
Inventive Step (IS)	Claims 33-60, 84-86 Claims 1-32, 61-83	YES NO			
	Ciamis 1-32, 01-63	NO			
Industrial Applicability (IA)	Claims 1-86	YES			
	Claims NONE	NO			
Claims 1-32 and 61-83 lack an inventive step under P 100, wherein the passageway within the tube 100 is o to use a self-sealing membrane with tube 100 since statent coating would be "disposed over the first end" of is considered to be the entire end portion of the tube is considered to be the entire end portion of the tube is Claims 33-60 and 84-86 meet the criteria set out in PC combination of an outer tubular member with groover.  Claims 1-86 meet the criteria set out in PCT Article 3 be made or used in industry.  NEW CITATIONS  NEW CITATIONS	bviously a cavity. As to claims 1 and 61, for example the membranes are old and well known as coatings for the Mathis tube 100 as recited in claim 1, line 4 sin including the wall of the tube.  CT Article 33(2)-(3), because the prior art does not to sand tracks having tabs slidably coupled therein (3(4), and thus have industrial applicability because the	le, it would have been obvious or stents. Note that such a ace the first end of the tube 100 each or fairly suggest the			

Form PCT/IPEA/409 (Box No. V) (April 2005)

### **CLAIMS:**

#### What is claimed is:

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- 1 1. A therapeutic medical appliance for introduction into a cavity in the 2 anatomy of a patient, the medical appliance comprising a tube with first and 3 second ends and the tube defining a cavity extending between the first and second 4 ends; and a first self-sealing membrane disposed over the first end.
- 1 2. The therapeutic medical appliance of claim 1, wherein tube forms a 2 scaffolding such that when pressure is exerted along varying points of the 3 extension of the appliance, the appliance does not undesirably foreshorten or 4 elongate.
  - 3. The therapeutic medical appliance of claim 2, wherein along the extension of the appliance, the scaffolding forms geometrical patterns.
  - 4. The therapeutic medical appliance of claim 2, wherein the scaffolding further comprises a coating coupled with the scaffolding, the coating of sufficient thickness to prevent the medical appliance from becoming epithelialized when installed in the desired portion of the patient's anatomy.
- The therapeutic medical appliance of claim 4, wherein the coating does not inhibit flexing or radial expansion of the medical appliance.
  - 6. The therapeutic medical appliance of claim 5, wherein the coating is coupled with the medical appliance about the first and second ends thereof.

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